

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-025375
 (43)Date of publication of application : 27.01.1998

(51)Int. Cl. C08L 21/00
 B29D 23/00
 B60C 5/14
 C08K 3/06
 C08K 5/098
 C08L101/00
 // B29D 30/06
 B29K 21:00

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(54) THERMOPLASTIC ELASTOMER COMPOSITION AND PNEUMATIC TIRE AND HOSE USING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a thermoplastic elastomer composition capable of forming an elastomer component into a discontinuous phase and a thermoplastic resin component into a continuous phase within a high elastomer content range and thereby having an excellent softness and gas permeating resistance.

SOLUTION: This composition comprises (A) at least one kind of thermoplastic resin component having $\leq 25 \times 10^{-12}$ cc. cm/cm². sec. cmHg air permeability coefficient and (B) at least one kind of an elastomer component having $\leq 1.0 \times 10^{-10}$ cc. cm/cm². sec. cmHg air permeability coefficient with the proviso that a viscosity η_m of the component A and the viscosity η_d of the component B at the kneading temperature satisfy the formula $(-0.0518 \cdot \Delta SP + 0.90) / \phi_m < (\eta_d / \eta_m)$ (ΔSP is a difference of solubility parameters between the elastomer component and the thermoplastic resin component; ϕ_m is a volume fraction of the thermoplastic resin component).

LEGAL STATUS

[Date of request for examination] 26.02.1999
 [Date of sending the examiner's decision of rejection] 21.08.2001
 [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
 [Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection] 2001-16868

[Date of requesting appeal against
examiner's decision of rejection] 20.09.2001

[Date of extinction of right]

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